




DATA VALIDATION CHECKLIST – STAGE 2A

(Page 1 of 4)

Site Name	ACME Galv, Inc.	Project No.	103I90260001S051503005
Data Reviewer (signature and date)	 March 20, 2015	Technical Reviewer (signature and date)	
Laboratory Report No.	1503417	Laboratory	ALS Environmental, Cincinnati, Ohio
Analyses	Volatile organic compounds by EPA TO-15, hydrogen cyanide (HCN) by NIOSH 6010M, TAL metals by EPA SW6010B and SW7470A, and total cyanide by EPA 335.2		
Samples	588-1, 162-2, 183-3, and LIQ-1		
Field Duplicate Pairs	None		
Field Blanks	None		

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review* (August 2014) and the EPA *Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Inorganic Superfund Data Review* (January 2010) data validation guidance documents, as well as the above referenced methods.

Data completeness:

Within Criteria	Exceedance/Notes
N	VOC and HCN analysis of samples 162-2 and 183-3 were requested on the COC form, but the laboratory did not have enough sample volume to run both tests. Tetra Tech instructed the laboratory to blend the two samples before running the analyses, so the analytical results for 162.2 (VOCs) and 183-3 (HCN) are from the blended sample. This should be reflected in the data package and EDD but isn't.



DATA VALIDATION CHECKLIST – STAGE 2A

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Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
Y	

Method blanks:

Within Criteria	Exceedance/Notes
Y	

System monitoring compounds (surrogates and labeled compounds):

Within Criteria	Exceedance/Notes
Y	

MS/MSD:

Within Criteria	Exceedance/Notes
N	The matrix spike (MS) and matrix spike duplicate (MSD) %Rs and RPDs for EPA SW6010 batch 27304 were outside laboratory control limits for calcium, magnesium, and sodium. Laboratory control limits do not apply, however, because the sample results are greater than 4X the amounts spiked, overwhelming the spiking solution. Also, the parent sample used for the MS and MSD is not from this project, so MS results do not apply to project samples.



DATA VALIDATION CHECKLIST – STAGE 2A

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Laboratory duplicates:

Within Criteria	Exceedance/Notes
Y	

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

Sample dilutions:

Within Criteria	Exceedance/Notes
Y	For the TO-15 analysis, sample 162.2 was diluted by factors of 10 and 40. All VOC results for this sample were reported from the tenfold dilution with the exception of acetone, which was reported from the fortyfold dilution. The dilution resulted in all analytes except acetone being reported as NDs at elevated RLs. No data were qualified.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
Y	

MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	



DATA VALIDATION CHECKLIST – STAGE 2A

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See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

ALS Environmental

Date: 18-Mar-15

Client: TETRATECH-CHICAGO

Project: ACME Galv. Inc.; Project No.: 103X9026

Sample ID: 588-1

Collection Date: 3/16/2015 12:00 PM

Work Order: 1503417

Lab ID: 1503417-01

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
1,1,1-Trichloroethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,1,2-Trichloroethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,1-Dichloroethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,1-Dichloroethene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,2,4-Trimethylbenzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,2-Dibromoethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,2-Dichloroethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,2-Dichloropropane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,3-Butadiene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,4-Dichlorobenzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
1,4-Dioxane	ND		1.0	ppbv	1	3/17/2015 04:23 PM
2-Butanone	ND		0.50	ppbv	1	3/17/2015 04:23 PM
2-Hexanone	ND		0.50	ppbv	1	3/17/2015 04:23 PM
2-Propanol	2.9		1.0	ppbv	1	3/17/2015 04:23 PM
4-Ethyltoluene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
4-Methyl-2-pentanone	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Acetone	12		1.0	ppbv	1	3/17/2015 04:23 PM
Benzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Benzyl chloride	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Bromodichloromethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Bromoform	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Bromomethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Carbon disulfide	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Carbon tetrachloride	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Chlorobenzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Chloroethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Chloroform	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Chloromethane	0.67		0.50	ppbv	1	3/17/2015 04:23 PM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Cumene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Cyclohexane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Dibromochloromethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Dichlorodifluoromethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM

Note:

DJK
3/20/15

ALS Environmental

Date: 18-Mar-15

Client: TETRATECH-CHICAGO

Project: ACME Galv. Inc.; Project No.: 103X9026

Sample ID: 588-1

Collection Date: 3/16/2015 12:00 PM

Work Order: 1503417

Lab ID: 1503417-01

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Ethylbenzene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Freon 113	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Freon 114	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Heptane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Hexachlorobutadiene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Hexane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
m,p-Xylene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Methylene chloride	ND		0.50	ppbv	1	3/17/2015 04:23 PM
MTBE	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Naphthalene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
o-Xylene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Propene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Styrene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Tetrachloroethene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Tetrahydrofuran	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Toluene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Trichloroethene	ND		0.20	ppbv	1	3/17/2015 04:23 PM
Trichlorofluoromethane	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Vinyl acetate	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Vinyl chloride	ND		0.50	ppbv	1	3/17/2015 04:23 PM
Surr: Bromofluorobenzene	97.7		60-140	%REC	1	3/17/2015 04:23 PM
TO-15 BY GC/MS			ETO-15		Analyst: MRJ	
1,1,1-Trichloroethane	ND		2.7	µg/m3	1	3/17/2015 04:23 PM
1,1,2,2-Tetrachloroethane	ND		3.4	µg/m3	1	3/17/2015 04:23 PM
1,1,2-Trichloroethane	ND		2.7	µg/m3	1	3/17/2015 04:23 PM
1,1-Dichloroethane	ND		2.0	µg/m3	1	3/17/2015 04:23 PM
1,1-Dichloroethene	ND		2.0	µg/m3	1	3/17/2015 04:23 PM
1,2,4-Trichlorobenzene	ND		3.7	µg/m3	1	3/17/2015 04:23 PM
1,2,4-Trimethylbenzene	ND		2.5	µg/m3	1	3/17/2015 04:23 PM
1,2-Dibromoethane	ND		3.8	µg/m3	1	3/17/2015 04:23 PM
1,2-Dichlorobenzene	ND		3.0	µg/m3	1	3/17/2015 04:23 PM
1,2-Dichloroethane	ND		2.0	µg/m3	1	3/17/2015 04:23 PM
1,2-Dichloropropane	ND		2.3	µg/m3	1	3/17/2015 04:23 PM
1,3,5-Trimethylbenzene	ND		2.5	µg/m3	1	3/17/2015 04:23 PM
1,3-Butadiene	ND		1.1	µg/m3	1	3/17/2015 04:23 PM
1,3-Dichlorobenzene	ND		3.0	µg/m3	1	3/17/2015 04:23 PM
1,4-Dichlorobenzene	ND		3.0	µg/m3	1	3/17/2015 04:23 PM

Note:

DJK
3/20/15

ALS Environmental

Date: 18-Mar-15

Client: TETRATECH-CHICAGO

Project: ACME Galv. Inc.; Project No.: 103X9026

Sample ID: 588-1

Collection Date: 3/16/2015 12:00 PM

Work Order: 1503417

Lab ID: 1503417-01

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		3.6	µg/m3	1	3/17/2015 04:23 PM
2-Butanone	ND		1.5	µg/m3	1	3/17/2015 04:23 PM
2-Hexanone	ND		2.0	µg/m3	1	3/17/2015 04:23 PM
2-Propanol	7.1		2.5	µg/m3	1	3/17/2015 04:23 PM
4-Ethyltoluene	ND		2.5	µg/m3	1	3/17/2015 04:23 PM
4-Methyl-2-pentanone	ND		2.0	µg/m3	1	3/17/2015 04:23 PM
Acetone	29		2.4	µg/m3	1	3/17/2015 04:23 PM
Benzene	ND		1.6	µg/m3	1	3/17/2015 04:23 PM
Benzyl chloride	ND		2.6	µg/m3	1	3/17/2015 04:23 PM
Bromodichloromethane	ND		3.4	µg/m3	1	3/17/2015 04:23 PM
Bromoform	ND		5.2	µg/m3	1	3/17/2015 04:23 PM
Bromomethane	ND		1.9	µg/m3	1	3/17/2015 04:23 PM
Carbon disulfide	ND		1.6	µg/m3	1	3/17/2015 04:23 PM
Carbon tetrachloride	ND		3.1	µg/m3	1	3/17/2015 04:23 PM
Chlorobenzene	ND		2.3	µg/m3	1	3/17/2015 04:23 PM
Chloroethane	ND		1.3	µg/m3	1	3/17/2015 04:23 PM
Chloroform	ND		2.4	µg/m3	1	3/17/2015 04:23 PM
Chloromethane	1.4		1.0	µg/m3	1	3/17/2015 04:23 PM
cis-1,2-Dichloroethene	ND		2.0	µg/m3	1	3/17/2015 04:23 PM
cis-1,3-Dichloropropene	ND		2.3	µg/m3	1	3/17/2015 04:23 PM
Cumene	ND		2.5	µg/m3	1	3/17/2015 04:23 PM
Cyclohexane	ND		1.7	µg/m3	1	3/17/2015 04:23 PM
Dibromochloromethane	ND		4.3	µg/m3	1	3/17/2015 04:23 PM
Dichlorodifluoromethane	ND		2.5	µg/m3	1	3/17/2015 04:23 PM
Ethyl acetate	ND		1.8	µg/m3	1	3/17/2015 04:23 PM
Ethylbenzene	ND		2.2	µg/m3	1	3/17/2015 04:23 PM
Freon 113	ND		3.8	µg/m3	1	3/17/2015 04:23 PM
Freon 114	ND		3.5	µg/m3	1	3/17/2015 04:23 PM
Heptane	ND		2.0	µg/m3	1	3/17/2015 04:23 PM
Hexachlorobutadiene	ND		5.3	µg/m3	1	3/17/2015 04:23 PM
Hexane	ND		1.8	µg/m3	1	3/17/2015 04:23 PM
m,p-Xylene	ND		2.2	µg/m3	1	3/17/2015 04:23 PM
Methylene chloride	ND		1.7	µg/m3	1	3/17/2015 04:23 PM
MTBE	ND		1.8	µg/m3	1	3/17/2015 04:23 PM
Naphthalene	ND		2.6	µg/m3	1	3/17/2015 04:23 PM
o-Xylene	ND		2.2	µg/m3	1	3/17/2015 04:23 PM
Propene	ND		0.86	µg/m3	1	3/17/2015 04:23 PM
Styrene	ND		2.1	µg/m3	1	3/17/2015 04:23 PM
Tetrachloroethene	ND		3.4	µg/m3	1	3/17/2015 04:23 PM
Tetrahydrofuran	ND		1.5	µg/m3	1	3/17/2015 04:23 PM

Note:

DJK
3/20/15

ALS Environmental

Date: 18-Mar-15

Client: TETRATECH-CHICAGO

Project: ACME Galv. Inc.; Project No.: 103X9026

Work Order: 1503417

Sample ID: 588-1

Lab ID: 1503417-01

Collection Date: 3/16/2015 12:00 PM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		1.9	µg/m3	1	3/17/2015 04:23 PM
trans-1,2-Dichloroethene	ND		2.0	µg/m3	1	3/17/2015 04:23 PM
trans-1,3-Dichloropropene	ND		2.3	µg/m3	1	3/17/2015 04:23 PM
Trichloroethene	ND		1.1	µg/m3	1	3/17/2015 04:23 PM
Trichlorofluoromethane	ND		2.8	µg/m3	1	3/17/2015 04:23 PM
Vinyl acetate	ND		1.8	µg/m3	1	3/17/2015 04:23 PM
Vinyl chloride	ND		1.3	µg/m3	1	3/17/2015 04:23 PM
Surr: Bromofluorobenzene	97.7		60-140	%REC	1	3/17/2015 04:23 PM

HYDROGEN CYANIDE BY NIOSH 6010 MOD.**N6010**

Hydrogen cyanide	ND		1.0	µg/sample	1
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Analyst: CTS
3/18/2015

Note:

DJL
3/20/15

ALS Environmental

Date: 18-Mar-15

Client: TETRATECH-CHICAGO

Project: ACME Galv. Inc.; Project No.: 103X9026

Sample ID: 162-2

Collection Date: 3/16/2015 12:00 PM

Work Order: 1503417

Lab ID: 1503417-02

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
1,1,1-Trichloroethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,1,2,2-Tetrachloroethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,1,2-Trichloroethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,1-Dichloroethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,1-Dichloroethene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,2,4-Trichlorobenzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,2,4-Trimethylbenzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,2-Dibromoethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,2-Dichlorobenzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,2-Dichloroethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,2-Dichloropropane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,3,5-Trimethylbenzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,3-Butadiene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,3-Dichlorobenzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,4-Dichlorobenzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
1,4-Dioxane	ND		10	ppbv	10	3/17/2015 05:03 PM
2-Butanone	ND		5.0	ppbv	10	3/17/2015 05:03 PM
2-Hexanone	ND		5.0	ppbv	10	3/17/2015 05:03 PM
2-Propanol	ND		10	ppbv	10	3/17/2015 05:03 PM
4-Ethyltoluene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
4-Methyl-2-pentanone	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Acetone	580		40	ppbv	40	3/18/2015 12:30 PM
Benzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Benzyl chloride	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Bromodichloromethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Bromoform	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Bromomethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Carbon disulfide	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Carbon tetrachloride	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Chlorobenzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Chloroethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Chloroform	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Chloromethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
cis-1,2-Dichloroethene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
cis-1,3-Dichloropropene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Cumene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Cyclohexane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Dibromochloromethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Dichlorodifluoromethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM

Note:

DJK
3/20/15

ALS Environmental

Date: 18-Mar-15

Client: TETRATECH-CHICAGO

Project: ACME Galv. Inc.; Project No.: 103X9026

Sample ID: 162-2

Collection Date: 3/16/2015 12:00 PM

Work Order: 1503417

Lab ID: 1503417-02

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Ethylbenzene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Freon 113	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Freon 114	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Heptane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Hexachlorobutadiene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Hexane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
m,p-Xylene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Methylene chloride	ND		5.0	ppbv	10	3/17/2015 05:03 PM
MTBE	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Naphthalene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
o-Xylene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Propene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Styrene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Tetrachloroethene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Tetrahydrofuran	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Toluene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
trans-1,2-Dichloroethene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
trans-1,3-Dichloropropene	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Trichloroethene	ND		2.0	ppbv	10	3/17/2015 05:03 PM
Trichlorofluoromethane	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Vinyl acetate	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Vinyl chloride	ND		5.0	ppbv	10	3/17/2015 05:03 PM
Surr: Bromofluorobenzene	97.2		60-140	%REC	10	3/17/2015 05:03 PM
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
1,1,1-Trichloroethane	ND		27	µg/m3	10	3/17/2015 05:03 PM
1,1,2,2-Tetrachloroethane	ND		34	µg/m3	10	3/17/2015 05:03 PM
1,1,2-Trichloroethane	ND		27	µg/m3	10	3/17/2015 05:03 PM
1,1-Dichloroethane	ND		20	µg/m3	10	3/17/2015 05:03 PM
1,1-Dichloroethene	ND		20	µg/m3	10	3/17/2015 05:03 PM
1,2,4-Trichlorobenzene	ND		37	µg/m3	10	3/17/2015 05:03 PM
1,2,4-Trimethylbenzene	ND		25	µg/m3	10	3/17/2015 05:03 PM
1,2-Dibromoethane	ND		38	µg/m3	10	3/17/2015 05:03 PM
1,2-Dichlorobenzene	ND		30	µg/m3	10	3/17/2015 05:03 PM
1,2-Dichloroethane	ND		20	µg/m3	10	3/17/2015 05:03 PM
1,2-Dichloropropane	ND		23	µg/m3	10	3/17/2015 05:03 PM
1,3,5-Trimethylbenzene	ND		25	µg/m3	10	3/17/2015 05:03 PM
1,3-Butadiene	ND		11	µg/m3	10	3/17/2015 05:03 PM
1,3-Dichlorobenzene	ND		30	µg/m3	10	3/17/2015 05:03 PM
1,4-Dichlorobenzene	ND		30	µg/m3	10	3/17/2015 05:03 PM

Note:

DJK
3/20/15

ALS Environmental

Date: 18-Mar-15

Client: TETRATECH-CHICAGO

Project: ACME Galv. Inc.; Project No.: 103X9026

Sample ID: 162-2

Collection Date: 3/16/2015 12:00 PM

Work Order: 1503417

Lab ID: 1503417-02

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		36	µg/m3	10	3/17/2015 05:03 PM
2-Butanone	ND		15	µg/m3	10	3/17/2015 05:03 PM
2-Hexanone	ND		20	µg/m3	10	3/17/2015 05:03 PM
2-Propanol	ND		25	µg/m3	10	3/17/2015 05:03 PM
4-Ethyltoluene	ND		25	µg/m3	10	3/17/2015 05:03 PM
4-Methyl-2-pentanone	ND		20	µg/m3	10	3/17/2015 05:03 PM
Acetone	1,400		95	µg/m3	40	3/18/2015 12:30 PM
Benzene	ND		16	µg/m3	10	3/17/2015 05:03 PM
Benzyl chloride	ND		26	µg/m3	10	3/17/2015 05:03 PM
Bromodichloromethane	ND		34	µg/m3	10	3/17/2015 05:03 PM
Bromoform	ND		52	µg/m3	10	3/17/2015 05:03 PM
Bromomethane	ND		19	µg/m3	10	3/17/2015 05:03 PM
Carbon disulfide	ND		16	µg/m3	10	3/17/2015 05:03 PM
Carbon tetrachloride	ND		31	µg/m3	10	3/17/2015 05:03 PM
Chlorobenzene	ND		23	µg/m3	10	3/17/2015 05:03 PM
Chloroethane	ND		13	µg/m3	10	3/17/2015 05:03 PM
Chloroform	ND		24	µg/m3	10	3/17/2015 05:03 PM
Chloromethane	ND		10	µg/m3	10	3/17/2015 05:03 PM
cis-1,2-Dichloroethene	ND		20	µg/m3	10	3/17/2015 05:03 PM
cis-1,3-Dichloropropene	ND		23	µg/m3	10	3/17/2015 05:03 PM
Cumene	ND		25	µg/m3	10	3/17/2015 05:03 PM
Cyclohexane	ND		17	µg/m3	10	3/17/2015 05:03 PM
Dibromochloromethane	ND		43	µg/m3	10	3/17/2015 05:03 PM
Dichlorodifluoromethane	ND		25	µg/m3	10	3/17/2015 05:03 PM
Ethyl acetate	ND		18	µg/m3	10	3/17/2015 05:03 PM
Ethylbenzene	ND		22	µg/m3	10	3/17/2015 05:03 PM
Freon 113	ND		38	µg/m3	10	3/17/2015 05:03 PM
Freon 114	ND		35	µg/m3	10	3/17/2015 05:03 PM
Heptane	ND		20	µg/m3	10	3/17/2015 05:03 PM
Hexachlorobutadiene	ND		53	µg/m3	10	3/17/2015 05:03 PM
Hexane	ND		18	µg/m3	10	3/17/2015 05:03 PM
m,p-Xylene	ND		22	µg/m3	10	3/17/2015 05:03 PM
Methylene chloride	ND		17	µg/m3	10	3/17/2015 05:03 PM
MTBE	ND		18	µg/m3	10	3/17/2015 05:03 PM
Naphthalene	ND		26	µg/m3	10	3/17/2015 05:03 PM
o-Xylene	ND		22	µg/m3	10	3/17/2015 05:03 PM
Propene	ND		8.6	µg/m3	10	3/17/2015 05:03 PM
Styrene	ND		21	µg/m3	10	3/17/2015 05:03 PM
Tetrachloroethene	ND		34	µg/m3	10	3/17/2015 05:03 PM
Tetrahydrofuran	ND		15	µg/m3	10	3/17/2015 05:03 PM

Note:

DJK
3/20/15

ALS Environmental

Date: 18-Mar-15

Client: TETRATECH-CHICAGO

Project: ACME Galv. Inc.; Project No.: 103X9026

Sample ID: 162-2

Collection Date: 3/16/2015 12:00 PM

Work Order: 1503417

Lab ID: 1503417-02

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		19	µg/m3	10	3/17/2015 05:03 PM
trans-1,2-Dichloroethene	ND		20	µg/m3	10	3/17/2015 05:03 PM
trans-1,3-Dichloropropene	ND		23	µg/m3	10	3/17/2015 05:03 PM
Trichloroethene	ND		11	µg/m3	10	3/17/2015 05:03 PM
Trichlorofluoromethane	ND		28	µg/m3	10	3/17/2015 05:03 PM
Vinyl acetate	ND		18	µg/m3	10	3/17/2015 05:03 PM
Vinyl chloride	ND		13	µg/m3	10	3/17/2015 05:03 PM
Surr: Bromofluorobenzene	97.2		60-140	%REC	10	3/17/2015 05:03 PM

Note:

DJL
3/20/15

ALS Environmental

Date: 18-Mar-15

Client: TETRATECH-CHICAGO

Project: ACME Galv. Inc.; Project No.: 103X9026

Sample ID: 183-3

Collection Date: 3/16/2015 12:00 PM

Work Order: 1503417

Lab ID: 1503417-03

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
HYDROGEN CYANIDE BY NIOSH 6010 MOD. Hydrogen cyanide	ND		N6010 1.0	µg/sample	1	Analyst: CTS 3/18/2015

Note:

DJK
3/20/15

ALS Environmental

Date: 18-Mar-15

Client: TETRATECH-CHICAGO
 Project: ACME Galv. Inc.; Project No.: 103X9026
 Sample ID: LIQ-1
 Collection Date: 3/16/2015 12:00 PM

Work Order: 1503417
 Lab ID: 1503417-04
 Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7470A			
Mercury	ND		0.50	µg/L	1	Prep Date: 3/17/2015 Analyst: SLW 3/18/2015 09:59 AM
METALS BY ICP			SW6010B			
Aluminum	1.3		0.20	mg/L	1	Prep Date: 3/17/2015 Analyst: VAW 3/17/2015 04:37 PM
Antimony	0.025		0.0060	mg/L	1	3/17/2015 04:37 PM
Arsenic	ND		0.010	mg/L	1	3/17/2015 04:37 PM
Barium	0.19		0.10	mg/L	1	3/17/2015 04:37 PM
Beryllium	ND		0.0040	mg/L	1	3/17/2015 04:37 PM
Cadmium	0.072		0.0050	mg/L	1	3/17/2015 04:37 PM
Calcium	88		0.20	mg/L	1	3/17/2015 04:37 PM
Chromium	0.19		0.020	mg/L	1	3/17/2015 04:37 PM
Cobalt	ND		0.050	mg/L	1	3/17/2015 04:37 PM
Copper	0.41		0.025	mg/L	1	3/17/2015 04:37 PM
Iron	10		0.20	mg/L	1	3/17/2015 04:37 PM
Lead	0.33		0.015	mg/L	1	3/17/2015 04:37 PM
Magnesium	14		0.20	mg/L	1	3/17/2015 04:37 PM
Manganese	0.29		0.050	mg/L	1	3/17/2015 04:37 PM
Nickel	0.14		0.040	mg/L	1	3/17/2015 04:37 PM
Potassium	11		0.20	mg/L	1	3/17/2015 04:37 PM
Selenium	ND		0.030	mg/L	1	3/17/2015 04:37 PM
Silver	ND		0.010	mg/L	1	3/17/2015 04:37 PM
Sodium	78		0.20	mg/L	1	3/17/2015 04:37 PM
Thallium	ND		0.0020	mg/L	1	3/17/2015 04:37 PM
Vanadium	ND		0.050	mg/L	1	3/17/2015 04:37 PM
Zinc	8.4		0.050	mg/L	1	3/17/2015 04:37 PM
TOTAL CYANIDE			E335.2			
Cyanide, Total	23		20	µg/L	1	Analyst: CTS 3/18/2015
PH			E9040B			
pH	7.6			pH Units	1	Analyst: CTS 3/18/2015

Note:

DJL
3/20/15